IP Link® Device Interface Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Display
Manufacturer: Samsung
Firmware Version: N/A
Model(s): HA790

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
2	5/30/2012	1.5.1	3.3.1	Update the driver based on the correct protocol. Change the model to HA790
1	5/15/2012	1.5.1	3.3.1	Initial version.

Driver Notes:

Control Commands & States:

Aspect Ratio	Auto Wide	Wide	Just Scan
	4:3		
Audio Mute	On/Off		
Channel TV (Step)	Up	Down	
Input	TV	SCART 1	SCART 2
	AV1	AV2	S-Video 1
	S-Video 2	Component 1	Component 2
	PC1	PC2	HDMI1
	HDMI2	HDMI3	HDMI4
	WiseLink		
Keypad	0 to 9		
Menu Navigation	Up	Down	Left
	Right	Enter	Exit
	Return		
PIP Mode	On	Off	
PIP Position	Upper Left	Upper Right	Lower Left
	Lower Right		
Power Control	On	Off	
Volume (Discrete)	0 to 100 in steps of 1		
Volume (Step)	Up	Down	

Status Available:

N/A

MLC60 Series Supported Commands:

Aspect Ratio	Auto Wide	Wide	Just Scan
	4:3		
Audio Mute	On/Off		
Channel TV (Step)	Up	Down	
Input	TV	SCART 1	SCART 2
	AV1	AV2	S-Video 1
	S-Video 2	Component 1	Component 2
	PC1	PC2	HDMI1
	HDMI2	HDMI3	HDMI4
	WiseLink		
Keypad	0 to 9		
Menu Navigation	Up	Down	Left
	Right	Enter	Exit
	Return		
PIP Mode	On	Off	
PIP Position	Upper Left	Upper Right	Lower Left
	Lower Right		
Power Control	On	Off	
Volume (Discrete)	0 to 100 in steps of 1		
Volume (Step)	Up	Down	

Cable and Adapter Requirements:

Refer to the diagram below for wiring.

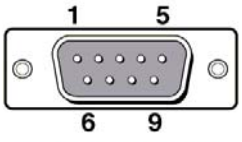
Notes for the Device:

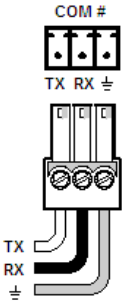
Please contact the manufacturer for enabling serial port or try the following.
To enter service menu: Make sure display is Off, then rapidly press the following keys, “Mute, 1, 8, 2, Power”.
After entering service mode set the Hotel Mode to Off.

Serial communication:

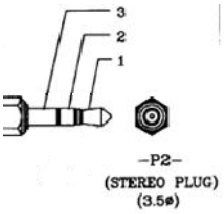
Port Type:	RS-232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:





Signal	Pin	Main Cable	Pin	Signal
RXD	2	←	1	TXD
TXD	3	→	2	RXD
GND	5	—	3	GND



Note: Captive screw connector may also be used as a serial connection.

General Notes: